



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,307	03/17/2005	Hiroaki Ozeki	MAT-8654US	6466
23122	7590	02/08/2008	EXAMINER	
RATNERPRESTIA			NGUYEN, DUC M	
P O BOX 980			ART UNIT	PAPER NUMBER
VALLEY FORGE, PA 19482-0980			2618	
			MAIL DATE	DELIVERY MODE
			02/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

This action is in response to applicant's response filed on 1/17/08. Claims 1-2 are now pending in the present application. **This action is made final.**

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable by **Todd** (US 6,002,672).

Regarding claim 1, **Todd** teaches a diversity receiver wherein an antenna is selected based on RSSI and BER (see col. 6, lines 52-65), **Todd** also teaches the RSSI is used for automatic gain control (see col. 5, lines 52-57). Therefore, when selecting an antenna based on RSSI and BER, the switching to a new antenna would obviously changing the new RSSI value to be used for AGC, this would lead to changing the operation start point of the AGC. Therefore, selecting an antenna and changing the operation start point of an AGC would occur essentially at the same time (correlated

features). Therefore, **Todd** would obviously teach the operation start point of an AGC is operated based on the RSSI and BER as claimed (see col. 5, lines 52-57 and col. 6, lines 52-65). Since one skilled in the art would recognize that **Todd**'s teaching would be applicable to a digital receiver as well as to a TDM system and would work equally well, claimed limitations are made obvious by **Todd**.

Regarding claim 2, the claim is rejected for the same reason as set forth in claim 1 above. In addition, it would have been obvious to one skilled in the art to modify **Todd** to provide two different polarized wave antennas as claimed, for utilizing advantages of polarized antennas in a fading/multi-path environment as suggested by **Todd** (see col. 3, lines 49-53).

3. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable by of **Goro** (JP Pub. 09-148973) in view of **Todd** (US 6,002,672).

Regarding claim 1, **Goro** would teach all the claimed limitations (see Fig. 1 and related disclosure), except for an error ratio measuring circuit. However, it is noted that utilizing such error measurements in combine with signal strength (or RSSI) for antenna selection is well known in the art as disclosed by **Todd** (see col. 4, lines 30-35 and col. 6, lines 52-65). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify **Goro** for further utilizing the error signal quality (or BER) with the RSSI to account for the co-channel interference as well, for further improving the performance of the receiver.

Regarding claim **2**, the claim is rejected for the same reason as set forth in claim 1 above. In addition, since utilizing polarized antenna is well known in the art, it would have been obvious to one skilled in the art to modify **Goro** to provide two different polarized wave antennas as suggested by **Todd** (see col. 3, lines 49-53), for utilizing advantages of polarized antennas in a fading/multi-path environment.

Response to Arguments

4. Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Application/Control Number:
10/528,307
Art Unit: 2618

Page 5

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

See the attached PTO-892.

7. **Any response to this final action should be mailed to:**

Box A.F.

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for **formal** communications intended for entry)

(571)-273-7893 (for informal or **draft** communications).

Hand-delivered responses should be brought to Customer Service Window,
Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Any inquiry concerning this communication or communications from the examiner should be directed to Duc M. Nguyen whose telephone number is (571) 272-7893, Monday-Thursday (9:00 AM - 5:00 PM).

Or to Nay Muang (Supervisor) whose telephone number is (571) 272-7882.

Duc M. Nguyen, P.E.

Jan 22, 2008

